



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION IV
1600 E. LAMAR BLVD.
ARLINGTON, TX 76011-4511

September 7, 2016

Mr. Mark E. Reddemann
Chief Executive Officer
Energy Northwest
76 North Power Plant Loop
P.O. Box 968 - Mail Drop 1023
Richland, WA 99352-0968

**SUBJECT: COLUMBIA GENERATING STATION – NOTIFICATION OF INSPECTION
(NRC INTEGRATED INSPECTION REPORT 05000397/2016004) AND REQUEST
FOR INFORMATION**

Dear Mr. Reddemann:

From December 5-9, 2016, inspectors from the Nuclear Regulatory Commission's (NRC) Region IV office will perform the baseline biennial requalification inspection at Columbia Generating Station, using NRC Inspection Procedure 71111.11B, "Licensed Operator Requalification Program." Experience has shown that this inspection is a resource intensive inspection both for the NRC inspectors and your staff. In order to minimize the impact to your on-site resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. These documents have been divided into three groups. The first group (Section A of the enclosure) identifies information to be provided prior to the inspection to ensure that the inspectors are adequately prepared. The second group (Section B of the enclosure) identifies the information the inspectors will need upon arrival at the site. The third group (Section C of the enclosure) identifies the items which are necessary to close out the inspection and are usually sent a few weeks after the team has left the site. It is important that all of these documents are up to date and complete in order to minimize the number of additional documents requested during the preparation and/or the onsite portions of the inspection.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Ms. T. Parmelee, Regulatory Affairs. Our inspection dates are subject to change based on your updated schedule of examination activities. If there are any questions about this inspection or the material requested, please contact Sean Hedger, lead inspector, at 817-200-1556 or Sean.Hedger@nrc.gov.

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0018. The NRC may not conduct or sponsor, and a person is not required to

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Sincerely,

/RA/

Vincent G. Gaddy, Chief
Operations Branch
Division of Reactor Safety

Docket No. 50-397
License No. NPF-21

Enclosure:
Biennial Requalification Inspection
Document Request

cc: Electronic Distribution

M. Reddemann

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Distribution:
See next page

ADAMS ACCESSION NUMBER: ML16251A134

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OFFICE	OE:OB	C:OB			
NAME	SHedger	VGaddy			
SIGNATURE	<i>/RA/</i>	<i>/RA/</i>			
DATE	9/7/16	9/7/16			

OFFICIAL RECORD COPY

Letter to Mark E. Reddemann from Vincent G. Gaddy, dated September 7, 2016

SUBJECT: COLUMBIA GENERATING STATION – NOTIFICATION OF INSPECTION
(NRC INTEGRATED INSPECTION REPORT 05000397/2016004) AND REQUEST
FOR INFORMATION

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BIENNIAL REQUALIFICATION INSPECTION DOCUMENT REQUEST

TO: Gerald Wyatt
Simulator and Exam Group Supervisor
509-377-4368

FROM: Sean Hedger
Operations Engineer, NRC RIV
817-200-1556

SUBJECT: INFORMATION REQUEST TO SUPPORT DECEMBER 5 TO 9, 2016,
LICENSED OPERATOR REQUALIFICATION PROGRAM INSPECTION
(IP 71111.11B)

A. The following information is requested in order to support inspection preparation activities. These items are listed by section as they appear in the inspection module (i.e., 2.02, 2.04, etc.). Requested materials should be sent either electronically or hardcopy in order to arrive at the Region IV office no later than November 14, 2016.

Electronically to: Sean.Hedger@nrc.gov (lead inspector);
cc: Clyde.Osterholtz@nrc.gov; Chris.Steely@nrc.gov (inspectors)
Note: Making documents available in IMS Certrec is acceptable as well

Items sent on hardcopy or CD go to: U.S. Nuclear Regulatory Commission
Region IV
ATTN: Sean Hedger
1600 E. Lamar Blvd
Arlington, TX 76011

General Requests:

- Index of the materials provided in response to this request
- List of licensed operators (LO) [senior reactor operators (SRO) and reactor operators (RO)] by crew (operating and staff)
- Training and operations department organization charts [with qualified licensed operator requalification (LOR) evaluators identified]
- Procedures that identify process for revising and maintaining LO continuing training program up to date
- List of outstanding LOR program changes
- List of plant events and industry operating experience incorporated into LOR program since last BRQ (biennial requalification)
- Audits and/or self-assessment reports addressing the licensed operator requalification training program
- Last two years of Simulator Review Committee (or equivalent) meeting minutes
- Last two years of Curriculum Review Committee (or equivalent) meeting minutes

Enclosure

02.03: Biennial Requalification Written Examination Quality

- Current and approved biennial written examination schedule
- Current requalification cycle written examination results for both SRO and RO that have already been administered up to the week prior to the inspection team arrival onsite, if any
- All written examinations that have been approved for administration up to and including the week before the inspection team is onsite, if any (these documents will need to have adequate password protection if e-mailed or double envelope protection if mailed via regular mail per NUREG-1021).
- Current requalification cycle examination methodology (sample plan)

02.04: Annual Requalification Operating Test Quality

- Schedule for the operating tests [job performance measures (JPMs) and scenarios] to be given the week of December 5, 2016
- Operating tests (JPMs and scenarios) (password protected and provide separately via telephone at later date) to be given the week of December 5, 2016
- Current requalification cycle operating tests (SRO and RO) and results up to the week prior to the inspection team arrival on-site
- All of the previous year's NRC required annual operating tests
- Current requalification cycle operating test methodology (sample plan)
- All portions of the updated final safety analysis report that identify operator response times for time critical operator actions

02.05: Licensee Admin of Requalification Exams

- All procedures used to administer the annual operating test
- All procedures used to assess operator performance
- All procedures that describe conduct of simulator training
- All procedures used to test, operate, and maintain the simulator
- Index for referencing the above procedures

02.06: Requalification Examination Security

- Submit any tracking tools that you use as a means to prevent excessive overlap on the written examinations and also meet the intent of sampling all required topics on a periodic basis
- Submit any tracking tools that you use as a means to prevent excessive overlap on the operating tests and also meet the intent of sampling all required malfunctions (including major events, instrument/component malfunctions, technical support calls, etc.) on a periodic basis
- All procedures that describe examination security, including procedures used to develop the examinations that include guidelines on overlap between examinations in current examination cycle tests and prior year examinations
- List of all condition reports since the last biennial requalification inspection related to examination security and overlap

02.07: Licensee Remedial Training Program

- List of remedial training conducted or planned since last requalification examinations (includes training provided to operators to enable passing requalification examinations and training provided to correct generic or individual weaknesses observed during previous requalification examination cycle)
- Remediation plans (lesson plans, reference materials, and attendance documentation)

02.08: Conformance with Operator License Conditions

- All procedures and program documentation for maintaining active operator licenses, tracking training attendance, and ensuring medical fitness of licensed operators
- All procedures and associated documentation that supports reactivation of any SRO/RO license (operating or staff crew) since the last biennial inspection
- List of licensed operators whose licenses were reactivated since the last BRQ inspection

02.09: Simulator Performance

- For the following cases, send the most recent transient test packages, which may be electronic or in paper single test packages and shall be complete with test procedures for each test, the acceptance criteria, and results. For each transient test, the reference chart should be included or an equivalent subject matter expert review versus the simulator results with a write-up for any differences beyond the ANSI 3.5 standard requirements.
 - Transient test 2, simultaneous trip of all feedwater pumps
 - Transient test 6, main turbine trip from maximum power level which does not result in immediate reactor scram.
 - Transient test 10, simultaneous closure of all main steam isolation valves combined with single stuck open safety or relief valve (inhibit activation of high pressure emergency core cooling systems)
 - Steady State tests for low power test
- All simulator management and configuration procedures if not already provided for Section 02.05 above.
- Simulator Discrepancy Report (DR) **summary** list for all open DRs. For closed DRs, **summary** list for those items closed between December 2014 and November 2016.
- Malfunction tests for loss of condenser vacuum, misaligned rods, and failure of reactor pressure control. If these are included in an SBT package then the review of that package would be acceptable. If these are in a scenario-based training package, then the review of that package would be acceptable.
- Primary parameters tested in order to verify core physics parameters. The applicable reference graphs from the Plant physics data book (electronic or other means as available) should also be included as well as the test procedures used and the acceptance criteria with results.

02.10: Problem Identification and Resolution

- Summary report of all condition reports related to operator actions/errors in the control room
- Any revised requalification training that was based on licensed operator performance issues
- Action Requests AR-2015-00325641, AR-2015-00326763, AR-2015-00327006, AR-2015-00325643, AR-2015-00329948; and any causal analysis documentation associated with issues identified during the 2015 initial licensing examination
- Action Request 346945 and any causal analysis documentation associated with the March 28, 2016 loss of reactor closed cooling (RCC) event
- Action Requests 324146 and 327593

B. The following information is requested in order to support the onsite inspection activities. Requested materials should be available to the inspection team, either electronically or hardcopy, upon site arrival on December 5, 2016.

02.02: Exam Results/ 02.03 and 02.04: Written Exam and Op Test Quality

- All approved Operating Tests (JPMs and scenarios) not previously submitted
- All results up to the day the team leaves the site

02.08: Conformance with Operator License Conditions

- Access to licensed operators' records (operating and staff crews)
- Access to licensed operators' training attendance records
- Access to licensed operators' medical records

02.09: Simulator Performance

- Simulator discrepancies (DRs) from December 1, 2014, to December 5, 2016. This should include all open DR examinations and DRs that have been closed, including the documentation/justification for closure
- Acceptance test documentation, including hardware and software model revisions at the time of acceptance (as available)
- Documentation that validates current models, including the thermal-hydraulics and neutronics models, to the actual plant
- All current model deficiencies, including FSAR vs. Design differences in the simulator (any documentation on this)
- Summary list of modifications from December 1, 2014, to December 5, 2016
- Plant modifications (both hardware and software) completed on the simulator by due date from July 1, 2014, to July 11, 2016
- Simulator differences lesson plan used in training (current to December 5, 2016)
- The complete book of all simulator annual performance test packages (usually in a single book, but may be electronic or in single test packages), complete with all transient tests, steady state tests, scenario-based tests, post-event simulator tests, and malfunction tests (This should also include the test procedures for each test, the acceptance criteria, and results. For each transient test, the reference chart should be included or an equivalent subject matter expert review versus the simulator results with a write-up for any differences beyond the ANSI 3.5 standard requirements.)

- All test packages used to verify core physics parameters. The applicable reference graphs from the plant physics data book (electronic or other means as available) should also be included as well as the test procedures used and the acceptance criteria with results.
- All simulator test, configuration management, and related documents available in the room for inspectors to review (this includes training needs analysis packages, simulator review committee meeting minutes, etc.)
- Current copy of ANSI 3.5 Standard you are committed to for simulator testing

02.10: Problem Identification and Resolution

- All condition reports related to operator actions/errors in the control room

C. Columbia Generating Station is required to send the final results summary and any remaining examinations and operating tests that have not been reviewed to the NRC regional office lead inspectors for final review and comparison against the Significance Determination Tools in order to communicate the exit results for the inspection.